SEQUENCE LISTING

```
<110> DYAX CORP.
           Beltzer, James P.
           Wescott, Charles R.
           Sato, Aaron K.
     <120> FIBRIN BINDING MOIETIES USEFUL AS IMAGING AGENTS
    <130> DYX-024.1 PCT; DYX-024.1 US
    <150> US 09/747,403
    <151> 2000-12-23
    <160> 56
    <170> PatentIn version 3.1
    <210> 1
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptides
    <220>
    <221> MISC_FEATURE
    <222> (1)..(1)
    <223> X1 is Cys, Pro, or Trp
    <220>
    <221> MISC FEATURE
    <222> (2)..(2)
¥
    <223> X2 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys, Met,
            Phe, Pro, Ser, Thr, Trp, Tyr or Val, or if X4 and X12 are not Cy
           s, then X2 may be Cys
    <220>
    <221>
           MISC_FEATURE
    <222>
           (3)..(3)
    <223> X3 is Ala, Asn, Gln, Gly, Ile, Leu, Met, Phe, Pro, or Thr
    <220>
    <221> MISC_FEATURE
    <222>
          (4)..(4)
    <223> X4 is Cys or another amino acid capable of forming a covalent cro
           ss-link to X12
    <220>
    <221>
           MISC_FEATURE
    <222>
           (5)..(5)
    <223> X5 is Pro, Arg, Asn, Asp, Gln, Gly, Phe, Ser, Thr or Tyr
```

<u>|-</u>

ħJ

N

<u>|</u>

```
<220>
     <221> MISC_FEATURE
     <222>
           (6)..(6)
     <223> X6 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro, Ser,
             Thr, Trp, Tyr, or Val
    <220>
    <221>
           MISC FEATURE
    <222> (7)..(7)
    <223> X7 is Glu, Gly, Lys, Ser, or Tyr
    <220>
    <221> MISC FEATURE
           (8)..(8)
    <222>
    <223> X8 is Pro, Asp, Glu, Asn, Gln, Glu, Gly, Leu, Lys, Ser, Thr, or T
    <220>
<221>
           MISC_FEATURE
    <222>
           (9)..(9)
    <223> X9 is Arg, Gly, or Trp
    <220>
    <221> MISC_FEATURE
    <222> (10)..(10)
    <223> X10 is Leu, Ile, Lys, Met, Asn, Gln, Pro, Ser, Thr, or Val
H
ī
ΠJ
    <220>
==
    <221> MISC FEATURE
    <222>
          (11)..(11)
    <223> X11 is Ile, Leu, Phe, Trp, or Tyr
    <220>
    <221> MISC_FEATURE
    <222>
          (12)..(12)
    <223> X12 is Cys or another amino acid capable of forming a covalent cr
           oss-link to X4
   <220>
   <221>
          MISC FEATURE
   <222>
          (13)..(13)
   <223> X13 is Cys, Gly, Leu, Phe, Pro, Trp, or Tyr
   <220>
   <221> MISC_FEATURE
   <222>
         (14)..(14)
   <223> X14 is Pro, Ala, Gly, Asn, Gln, Lys, Ser, Thr, Tyr, Asp, Glu, or
```

His ·

```
<220>
    <221> MISC_FEATURE
    <222>
          (15)..(15)
    <223> X15 is Ala, Arg, Asp, Ile, Leu, Met, Phe, Pro, Trp, Val, Asn, Gln
          , Gly, Ser, Thr, Tyr, or His
    <400> 1
    10
    <210> 2
    <211>
    <212> PRT
    <213> Artificial Sequence
<220>
         fibrin binding polypeptides
    <223>
    <220>
    <221> MISC_FEATURE
    <222> (2)..(2)
    <223> X2 is Pro, Arg, Asn, Asp, Gln, Gly, Phe, Ser, Thr or Tyr
H
    <220>
<221> MISC FEATURE
    <222>
          (3)..(3)
    <223> X3 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro, Ser,
           Thr, Trp, Tyr, or Val
    <220>
    <221> MISC_FEATURE
    <222>
          (4)..(4)
    <223> X4 is Glu, Gly, Lys, Ser, or Tyr
    <220>
    <221> MISC_FEATURE
    <222> (5)..(5)
    <223> X5 is Pro, Asp, Glu, Asn, Gln, Glu, Gly, Leu, Lys, Ser, Thr, or T
          yr
    <220>
    <221> MISC FEATURE
    <222> (6)..(6)
    <223> X6 is Arg, Gly, or Trp
    <220>
```

3

```
<221> MISC FEATURE
    <222> (7) ... (7)
    <223> X7 is Leu, Ile, Lys, Met, Asn, Gln, Pro, Ser, Thr, or Val
    <220>
    <221> MISC_FEATURE
    <222> (8)..(8)
    <223> X8 is Ile, Leu, Phe, Trp, or Tyr
    <400> 2
    Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys
                   5
    <210> 3
    <211> 15
    <212> PRT
    <213> Artificial Sequence
<220>
    <223> fibrin binding polypeptide
    <400> 3
    Trp Glu Leu Cys Ser Asp Glu Asn Trp Leu Trp Cys Trp Pro His
                    5
                                                            15
<u>_</u>
n.
    <210> 4
N
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 4
    Trp Met Met Cys Pro Met Ser Glu Trp Leu Tyr Cys Trp Ser Ala
    <210> 5
    <211> 15
    <212> PRT
   <213> Artificial Sequence
   <220>
   <223> fibrin binding polypeptide
   <400> 5
   Trp Gln Pro Cys Pro Trp Glu Ser Trp Thr Phe Cys Trp Asp Pro
                                       10
```

```
<210> 6
          15
    <211>
    <212>
          PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 6
    Trp Ala Pro Cys Gln Glu Glu Pro Trp Leu Phe Cys Phe His Gly
          7
    <210>
          15
    <211>
    <212>
          PRT
    <213> Artificial Sequence
<220>
    <223> fibrin binding polypeptide
    <400> 7
    Trp Lys Ala Cys Pro Gly Glu Asp Trp Leu Phe Cys Trp Gly Ser
<210>
           8
ī.
    <211>
           13
īU
    <212>
          PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 8
    Arg Ala Pro Cys Asp Tyr Tyr Gly Thr Cys Val Glu Leu
    <210>
          9
    <211>
          13
    <212> PRT
    <213> Artificial Sequence
    <220>
          template of display peptide for phage display library
    <223>
    <220>
    <221> MISC FEATURE
    <222> (1)..(3)
    <223> Xaa1, Xaa2, Xaa3 are independently variable and
                 may be any amino acid except cysteine
```

```
<220>
    <221> MISC FEATURE
    <222> (5)..(9)
    <223> Xaa5, Xaa6, Xaa7, Xaa8, Xaa9 are independently
                 variable and may be any amino acid except cysteine
    <220>
    <221> MISC_FEATURE
    <222> (11)..(13)
    <223> Xaa11, Xaa12, Xaa13 are independently variable and
                 may be any amino acid except cysteine
    <400> 9
    Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
<210> 10
    <211>
    <212> PRT
    <213> Artificial Sequence
    <220>
          template of display peptide for phage display library
    <223>
    <220>
j.
   <221> MISC FEATURE
Ñ
   <222>
          (1)..(3)
    <223> Xaa1, Xaa2, Xaa3 are independently variable and
<u>_</u>
                may be any amino acid except cysteine
<u>_</u>
    <220>
    <221> MISC FEATURE
    <222>
          (5)..(10)
    <223> Xaa5, Xaa6, Xaa7, Xaa8, Xaa9, Xaa10 are
                independently variable and may be any amino acid
                except cysteine
   <220>
    <221> MISC FEATURE
   <222>
          (12)..(14)
    <223> Xaa12, Xaa13, Xaa14 are independently variable and
                may be any amino acid except cysteine
   <400> 10
   Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
                   5
```

```
<210> 11
<211>
<212>
      PRT
<213> Artificial Sequence
<220>
       template for display peptide of a phage display library
<223>
<220>
<221> MISC_FEATURE
<222>
      (1)..(3)
<223> Xaa1, Xaa2, Xaa3 are independently variable and
            may be any amino acid except cysteine
<220>
<221> MISC_FEATURE
<222>
      (5)..(11)
<223> Xaa5, Xaa6, Xaa7, Xaa8, Xaa9, Xaa10, Xaa11 are
             independently variable and may be any amino acid
             except cysteine
<220>
<221> MISC_FEATURE
      (13)..(15)
<222>
<223> Xaa13, Xaa14, Xaa15 are independently variable and
            may be any amino acid except cysteine
<400> 11
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
                5
<210> 12
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223>
      7-mer fibrin binding loop
<400> 12
Cys Asp Tyr Tyr Gly Thr Cys
<210> 13
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
```

```
template of display peptide for phage display library
    <220>
    <221>
           MISC_FEATURE
    <222>
           (1)..(1)
           Xaal is Ala, Asp, Phe, Gly, His, Leu, Asn, Pro,
    <223>
                 Gln, Arg, Ser, Val, Trp or Tyr
    <220>
           MISC FEATURE
    <221>
    <222>
           (2)..(3)
    <223> Xaa2, Xaa3 are independently Ala, Asp, Glu, Phe,
                 Gly, His, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
                 Thr, Val, Trp or Tyr
    <220>
    <221> MISC_FEATURE
    <222>
           (5)..(8)
    <223> Xaa5, Xaa6, Xaa7, Xaa8 are independently Ala, Asp,
                 Glu, Phe, Gly, His, Lys, Leu, Met, Asn, Pro, Gln,
Arg, Ser, Thr, Val, Trp or Tyr
    <220>
    <221> MISC_FEATURE
    <222>
           (10)..(11)
    <223> Xaa10, Xaa11 are independently Ala, Asp, Glu, Phe,
                 Gly, His, Lys, Leu, Met, Asn, Pro, Gln, Arg, Ser,
.
E
                 Thr, Val, Trp or Tyr
4 5 5
    <220>
    <221>
           MISC_FEATURE
1
    <222>
           (12)..(12)
           Xaa12 is Ala, Asp, Phe, Gly, His, Leu, Asn, Pro,
    <223>
                 Gln, Arg, Ser, Val, Trp or Tyr
    <400> 13
    Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
                    5
    <210>
           14
    <211>
           22
    <212>
           PRT
    <213> Artificial Sequence
    <220>
           DX-101 fibrin binding polypeptide
    <223>
    <400>
    Ala Glu Gly Thr Gly Ser Gln Trp Glu Cys Pro Tyr Gly Leu Cys Trp
```

5

Ile Gln Ala Pro Gly Lys

```
20
    <210> 15
    <211> 19
    <212> PRT
    <213> Artificial Sequence
    <220>
          slow dissociating fibrin binding peptide
    <223>
    <220>
    <221> MOD RES
    <222> (1)..(1)
    <223> ACETYLATION
<220>
    <221> MOD RES
    <222>
           (19)..(19)
    <223> AMIDATION .
    <400> 15
    Trp Gln Pro Cys Pro Trp Glu Ser Trp Thr Phe Cys Trp Asp Pro Gly
Gly Gly Lys
    <210> 16
    <211> 19
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> slow dissociating fibrin binding peptide
    <220>
    <221> MOD_RES
    <222> (1)..(1)
    <223> ACETYLATION
    <220>
    <221> MOD RES
    <222> (19)..(19)
    <223> conjugated with HYNIC chelator for Tc
```

```
<220>
    <221> MOD RES
    <222> (19)..(19)
    <223> AMIDATION
    <400> 16
    Trp Gln Pro Cys Pro Trp Glu Ser Trp Thr Phe Cys Trp Asp Pro Gly
    Gly Gly Lys
    <210> 17
    <211> 19
    <212> PRT
    <213> Artificial Sequence
    <220>
<223> slow dissociating fibrin binding peptide
    <220>
    <221> MOD_RES
    <222> (1)..(1)
    <223> ACETYLATION
    <220>
H
   <221> MOD_RES
   <222> (19)..(19)
    <223> AMIDATION
H
    <220>
    <221> MOD RES
    <222> (19)..(19)
    <223> fluoresceinated
    <400> 17
    Trp Gln Pro Cys Pro Trp Glu Ser Trp Thr Phe Cys Trp Asp Pro Gly
                 5
                                      10
   Gly Gly Lys
    <210> 18
    <211> 19
    <212> PRT
    <213> Artificial Sequence
```

```
<223> slow dissociating fibrin binding peptide
    <220>
          MOD_RES
    <221>
    <222>
          (1)..(1)
    <223> ACETYLATION
    <220>
    <221> MOD_RES
    <222> (19)..(19)
    <223> AMIDATION
    <400> 18
    Trp Ala Pro Cys Gln Glu Glu Pro Trp Leu Phe Cys Phe His Gly Gly
                   5
                                       10
Gly Gly Lys
    <210> 19
    <211> 19
    <212> PRT
    <213> Artificial Sequence
3
    <220>
|
    <223> slow dissociating fibrin binding peptide
ΠJ
ħJ
    <220>
<221> MOD_RES
<222>
          (1)..(1)
    <223> ACETYLATION
    <220>
    <221> MOD RES
          (19)..(19)
    <222>
    <223> AMIDATION
    <220>
    <221> MOD_RES
          (19)..(19)
    <222>
    <223> conjugated with HYNIC chelator for Tc
    <400> 19
    Trp Ala Pro Cys Gln Glu Glu Pro Trp Leu Phe Cys Phe His Gly Gly
                                       10
                   5
```

<220>

```
<210>
           20
           19
    <211>
    <212>
           PRT
    <213> Artificial Sequence
    <220>
    <223> slow dissociating fibrin binding peptide
    <220>
    <221> MOD_RES
    <222>
           (1)..(1)
    <223> ACETYLATION
    <220>
    <221> MOD RES
    <222> (19)..(19)
10034974.1E2101
    <223> AMIDATION
    <220>
    <221> MOD_RES
    <222> (19)..(19)
    <223> fluoresceinated
    <400> 20
    Trp Ala Pro Cys Gln Glu Glu Pro Trp Leu Phe Cys Phe His Gly Gly
                                         10
    Gly Gly Lys
    <210> 21
    <211> 9
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding loop
    <400> 21
    Cys Ser Asp Glu Asn Trp Leu Trp Cys
    <210> 22
    <211> 9
    <212> PRT
```

Gly Gly Lys

```
<213> Artificial Sequence
<220>
<223> fibrin binding loop
<400> 22
Cys Pro Met Ser Glu Trp Leu Tyr Cys
<210> 23
<211> 9
<212> PRT
<213> Artificial Sequence
<223> fibrin binding loop
<400> 23
Cys Pro Trp Glu Ser Trp Thr Phe Cys
<210> 24
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> fibrin binding loop
<400> 24
Cys Gln Glu Glu Pro Trp Leu Phe Cys
<210> 25
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> fibrin binding loop
<400> 25
Cys Pro Gly Glu Asp Trp Leu Phe Cys
<210> 26
<211> 7
<212> PRT
<213> Artificial Sequence
```

N

```
<223> fibrin binding loop
    <400> 26
    Cys Asp Tyr Tyr Gly Thr Cys
                    5
    <210> 27
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 27
    Pro Arg Pro Cys Tyr Gly Glu Ser Gly Ile Phe Cys Trp Lys Val
<210> 28
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <223> fibrin binding polypeptide
    <400> 28
H
    Pro Arg Pro Cys Thr Gly Glu Pro Gly Pro Ile Cys Gly Pro Arg
                                       10
    <210> 29
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223>
          fibrin binding polypeptide
    <400> 29
    Trp Gln Ala Cys Gln Leu Gly Tyr Arg Thr Tyr Cys Trp Asp Gly
                   5
                                       10
                                                           15
    <210> 30
    <211> 15
    <212> PRT
    <213> Artificial Sequence
```

```
<223> fibrin binding polypeptide
    <400> 30
    Trp Lys Phe Cys Asp Gly Glu Pro Trp Leu Phe Cys Trp Asp Gly
    <210> 31
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
          fibrin binding polypeptide
    <223>
    <400> 31
    Trp Asn Gly Cys Gly Trp Gly Ser Trp Lys Phe Cys Gly Glu Gly
5
                                        10
<210>
          32
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
N
    <400> 32
Πij
ļ-1
    Trp Leu Asn Cys Gly Trp Gly Ser Gly Lys Leu Cys Leu Gly Val
                    5
                                        10
    <210> 33
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 33
    Cys Tyr Phe Cys Pro Gly Glu Pro Trp Thr Phe Cys Cys Asp Asp
                                        10
    <210> 34
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
```

<220>

```
<223> fibrin binding polypeptide
    <400>
          34
    Trp His Phe Cys Pro Gly Glu Pro Trp Thr Phe Cys Trp Ala Gly
                    5
                                        10
    <210> 35
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 35
    Trp Gln Thr Cys Pro Gly Tyr Leu Arg Ser Leu Cys Trp Asp Gly
<210> 36
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
=
    <223> fibrin binding polypeptide
3
!
    <400> 36
Ñ
T
    Trp Tyr Phe Cys Pro Gly Glu Pro Trp Ser Phe Cys Pro Asp Gly
Ŀ
<210> 37
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptide
    <400> 37
    Pro Arg Pro Cys Arg Gly Glu Ser Trp Pro Tyr Cys Trp Gly Gly
                   5
                                                           15
   <210> 38
   <211> 15
    <212> PRT
   <213> Artificial Sequence
   <220>
    <223> fibrin binding polypeptide
```

```
<400> 38
    Trp Gln Ala Cys Pro Gly Tyr Lys Arg Gln Phe Cys Trp Asp Arg
    <210> 39
    <211> 15
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223>
           fibrin binding polypeptide
    <400>
          39
    Pro Arg Pro Cys Gly Gln Glu Ser Arg Thr Phe Cys Leu Glu Gly
                    5
    <210> 40
<211>
    <212>
          PRT
    <213> Artificial Sequence
    <220>
          fibrin binding polypeptide
    <223>
    <400> 40
Ħ
H
    Pro Arg Pro Cys Phe Gln Lys Gly Gly Thr Leu Cys Trp Pro Gly
                    5
N
ᆂ
    <210> 41
    <211>
          15
    <212>
          PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptides
    <220>
    <221> MISC_FEATURE
    <222>
          (2)..(2)
    <223> X2 is Ala, Arg, Asn, Asp, Gln, Glu, Gly, His, Ile, Leu, Lys, Met,
           Phe, Pro, Ser, Thr, Trp, Tyr or Val, or if X4 and X12 are not Cy
           s, then X2 may be Cys
    <220>
    <221> MISC FEATURE
    <222>
          (3)..(3)
    <223> X3 is Ala, Asn, Gln, Gly, Ile, Leu, Met, Phe, or Pro
```

```
<220>
          MISC_FEATURE
    <221>
    <222>
           (4)..(4)
    <223> X4 is Cys or another amino acid capable of forming a covalent cro
           ss-link to X12
    <220>
    <221> MISC_FEATURE
    <222> (5)..(5)
    <223> X5 is Pro, Asn, Gln, Ser, or Thr
    <220>
          MISC_FEATURE
    <221>
    <222>
          (6):.(6)
    <223> X6 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro, Ser,
            Thr, Trp, Tyr, or Val
    <220>
    <221> MISC_FEATURE
    <222>
          (7)..(7)
<223> X7 is Glu or Ser
    <220>
    <221> MISC_FEATURE
7
    <222> (8)..(8)
    <223> X8 is Pro, Asp, Glu, Asn, Gln, Ser, Thr, or Tyr
4 5 5
    <220>
    <221> MISC FEATURE
    <222>
          (10)..(10)
<223> X10 is Leu, Ile, Met, Asn, Gln, Ser, Thr, or Val
    <220>
    <221> MISC_FEATURE
    <222> (11)..(11)
    <223> X11 is Phe, Trp, or Tyr
    <220>
    <221> MISC_FEATURE
    <222>
          (12)..(12)
    <223> X12 is Cys or another amino acid capable of forming a covalent cr
          oss-link to X4
    <220>
    <221> MISC_FEATURE
    <222> (13)..(13)
    <223> X13 is Phe, Trp, or Tyr
```

```
<220>
   <221> MISC_FEATURE
   <222>
         (14)..(14)
   <223> X14 is Pro, Ala, Gly, Asn, Gln, Ser, Thr, Tyr, Asp, Glu, or His
   <220>
   <221> MISC FEATURE
   <222>
         (15)..(15)
   <223> X15 is Ala, Ile, Leu, Met, Phe, Pro, Trp, Val, Asn, Gln, Gly, Ser
          , Thr, Tyr, or His
   <400> 41
   <210> 42
   <211> 9
   <212> PRT
   <213> Artificial Sequence
<220>
   <223> fibrin binding polypeptides
   <220>
<221> MISC_FEATURE
   <222>
         (2)..(2)
   <223> X2 is Pro, Asn, Gln, Ser, or Thr
H
N
   <220>
TU
   <221> MISC_FEATURE
₽
   <222>
         (3)..(3)
   <223> X3 is Ala, Asn, Asp, Gln, Glu, Gly, Ile, Leu, Met, Phe, Pro, Ser,
          Thr, Trp, Tyr, or Val
   <220>
   <221> MISC_FEATURE
   <222>
         (4)..(4)
   <223> X4 is Glu or Ser
   <220>
   <221> MISC_FEATURE
   <222> (5)..(5)
   <223> X5 is Pro, Asp, Glu, Asn, Gln, Ser, Thr, or Tyr
   <220>
   <221> MISC FEATURE
   <222>
         (7)..(7)
   <223> X7 is Leu, Ile, Met, Asn, Gln, Ser, Thr, or Val
```

```
<220>
    <221> MISC_FEATURE
    <222> (8)..(8)
    <223> X8 is Phe, Trp, or Tyr
    <400> 42
    Cys Xaa Xaa Xaa Xaa Trp Xaa Xaa Cys
    <210> 43
    <211> 9
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptides
    <400> 43
Cys Tyr Gly Glu Ser Gly Ile Phe Cys
                   5
    <210> 44
          9
    <211>
    <212> PRT
    <213> Artificial Sequence
<220>
<223> fibrin binding polypeptides
    <400> 44
    Cys Thr Gly Glu Pro Gly Pro Ile Cys
    <210> 45
    <211> 9
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptides
    <400> 45
    Cys Gln Leu Gly Tyr Arg Thr Tyr Cys
    <210> 46
    <211> 9
```

```
<212> PRT
<213> Artificial Sequence
<220>
<223> fibrin binding polypeptides
<400> 46
Cys Asp Gly Glu Pro Trp Leu Phe Cys
<210> 47
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> fibrin binding polypeptides
<400> 47
Cys Gly Trp Gly Ser Trp Lys Phe Cys
<210> 48
<211> 9
<212> PRT
<213> Artificial Sequence
<223> fibrin binding polypeptides
<400> 48
Cys Gly Trp Gly Ser Gly Lys Leu Cys
<210> 49
<211> 9
<212> PRT
<213> Artificial Sequence
<220>
<223> fibrin binding polypeptides
<400> 49
Cys Pro Gly Glu Pro Trp Thr Phe Cys
                5
<210> 50
<211> 9
<212> PRT
```

```
<213> Artificial Sequence
    <220>
   <223> fibrin binding polypeptides
   <400> 50
   Cys Pro Gly Glu Pro Trp Thr Phe Cys
   <210> 51
   <211> 9
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> fibrin binding polypeptides
   <400> 51
   Cys Pro Gly Tyr Leu Arg Ser Leu Cys
<210> 52
   <211> 9
   <212> PRT
   <213> Artificial Sequence
   <220>
HW
   <223> fibrin binding polypeptides
   <400> 52
   Cys Pro Gly Glu Pro Trp Ser Phe Cys
                  5
   <210> 53
   <211> 9
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> fibrin binding polypeptides.
   <400> 53
   Cys Arg Gly Glu Ser Trp Pro Tyr Cys
   <210> 54
   <211> 9
```

<212> PRT

<213> Artificial Sequence

```
<400> 54
    Cys Pro Gly Tyr Lys Arg Gln Phe Cys
                    5
    <210> 55
    <211> 9
    <212> PRT
    <213> Artificial Sequence
    <220>
    <223> fibrin binding polypeptides
    <400> 55
    Cys Gly Gln Glu Ser Arg Thr Phe Cys
<210> 56
    <211>
           9
    <212>
          PRT
    <213> Artificial Sequence
    <220>
   <223> fibrin binding polypeptides
<u>l</u>
   <400> 56
ī.
Cys Phe Gln Lys Gly Gly Thr Leu Cys
```

<223> fibrin binding polypeptides

<220>